

Scaled data based on original data using
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for
Cooper Lighting Solutions
(formerly Eaton)

Brand: STREETWORKS

Report Number: P481257

Luminaire Tested: **IFLD-M-SA4A-735-U-RW**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P481257
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-M-SA4A-735-U-RW
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ RW distribution lens
Light Source: (64) 3500K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

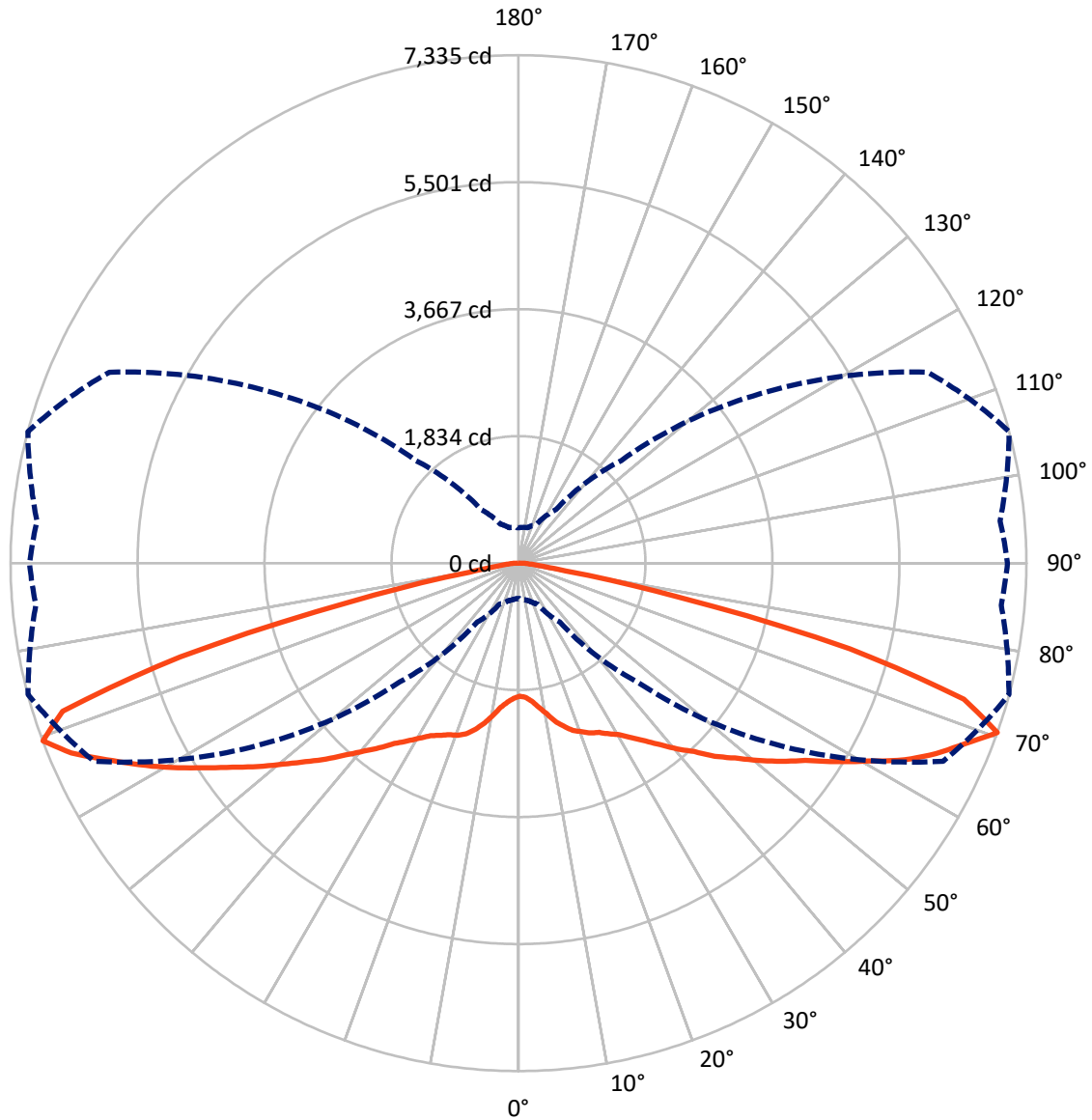
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 18761.3 lumens
Efficiency: N/A
Efficacy: 145.9 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B4 - U0 - G4

Input Watts (W): 128.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT

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Luminous Intensity Polar Plot



— Vertical Plane Through 105-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	9313.9	0.0	9313.9
	% Fixture	49.6	0.0	49.6
Street Side	Lumens	9447.4	0.0	9447.4
	% Fixture	50.4	0.0	50.4
Total	Lumens	18761.3	0.0	18761.3
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	191.2	1.0
10°-20°	651.1	3.5
20°-30°	1260.7	6.7
30°-40°	2132.4	11.4
40°-50°	3401.8	18.1
50°-60°	4656.3	24.8
60°-70°	4388.9	23.4
70°-80°	1933.4	10.3
80°-90°	145.5	0.8
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	18761.3	100.0
0°-180°	18761.3	100.0

Coefficient of Utilization



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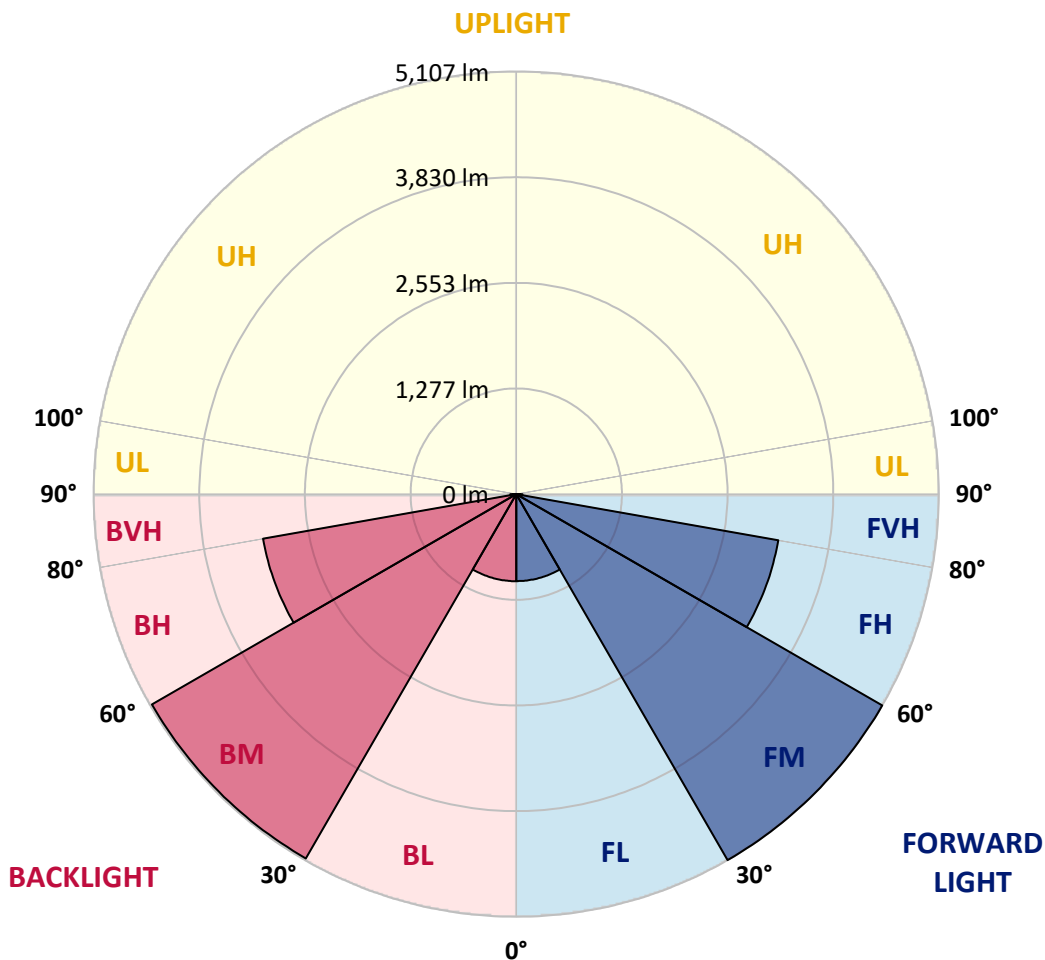
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1050.9	5.6			
FM (30°-60°)	5106.7	27.2			
FH (60°-80°)	3215.5	17.1			G2/5000
FVH (80°-90°)	74.3	0.4			G1/100
BL (0°-30°)	1052.1	5.6	B3/2500		
BM (30°-60°)	5083.8	27.1	B4/8500		
BH (60°-80°)	3106.8	16.6	B4/5000		G4/5000
BVH (80°-90°)	71.2	0.4			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G4

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	1921.1	1921.1	1921.1	1921.1	1921.1	1921.1	1921.1	1921.1	1921.1	1921.1	1921.1
2.5°	1909.0	1909.0	1907.0	1917.1	1927.2	1931.2	1939.3	1941.4	1953.5	1943.4	1963.6
5°	1902.9	1900.9	1917.1	1941.4	1941.4	1967.6	1983.8	2006.1	2012.1	2024.3	2028.3
7.5°	1945.4	1941.4	1933.3	1959.6	1981.8	2022.3	2044.5	2082.9	2097.1	2113.3	2131.5
10°	1971.7	1971.7	1963.6	2010.1	2030.3	2084.9	2133.5	2171.9	2226.5	2244.7	2246.7
12.5°	1975.7	1981.8	2006.1	2066.7	2123.4	2194.1	2230.5	2303.3	2357.9	2392.3	2404.5
15°	2036.4	2024.3	2050.6	2133.5	2216.4	2279.1	2343.8	2396.4	2475.2	2519.7	2548.0
17.5°	2091.0	2078.9	2127.4	2226.5	2311.4	2408.5	2465.1	2521.7	2578.4	2618.8	2620.8
20°	2178.0	2188.1	2230.5	2337.7	2448.9	2533.9	2598.6	2608.7	2637.0	2695.7	2685.5
22.5°	2285.1	2277.1	2366.0	2483.3	2604.7	2675.4	2711.8	2685.5	2671.4	2734.1	2748.2
25°	2392.3	2416.6	2497.5	2606.7	2752.3	2847.3	2857.4	2784.6	2732.1	2754.3	2748.2
27.5°	2556.1	2560.2	2645.1	2774.5	2922.2	3005.1	2999.0	2895.9	2794.7	2796.8	2800.8
30°	2766.4	2746.2	2839.2	2956.5	3102.1	3177.0	3187.1	3039.4	2904.0	2863.5	2873.6
32.5°	2968.7	2992.9	3073.8	3207.3	3314.5	3356.9	3334.7	3203.2	3027.3	2972.7	2978.8
35°	3227.5	3223.5	3334.7	3447.9	3528.8	3536.9	3518.7	3326.6	3160.8	3090.0	3061.7
37.5°	3504.6	3541.0	3613.8	3706.8	3791.7	3795.8	3696.7	3543.0	3338.7	3221.4	3255.8
40°	3814.0	3854.4	3907.0	4042.5	4105.2	4040.5	3939.3	3731.1	3518.7	3415.6	3431.8
42.5°	4087.0	4105.2	4212.3	4372.1	4402.4	4374.1	4224.5	3971.7	3725.0	3611.7	3619.8
45°	4337.7	4362.0	4501.5	4645.1	4715.9	4667.4	4493.4	4252.8	3965.6	3868.6	3830.1
47.5°	4568.3	4616.8	4752.3	4899.9	5009.1	5013.2	4798.8	4507.6	4204.3	4076.9	4074.8
50°	4724.0	4794.8	4928.2	5096.1	5255.8	5318.5	5104.2	4790.7	4465.1	4329.6	4315.5
52.5°	4808.9	4881.7	5015.2	5276.1	5454.0	5551.1	5450.0	5055.6	4770.5	4628.9	4606.7
55°	4705.8	4754.3	4972.7	5338.7	5613.8	5773.5	5706.8	5421.7	5073.8	4958.6	4978.8
57.5°	4266.9	4368.1	4637.0	5094.0	5609.7	6002.0	5996.0	5767.5	5423.7	5314.5	5318.5
60°	3512.6	3597.6	3929.2	4568.3	5383.2	6095.1	6309.4	6103.2	5816.0	5688.6	5684.5
62.5°	2479.3	2586.5	2970.7	3668.4	4715.9	5965.6	6669.4	6525.8	6200.2	6107.2	6141.6
65°	1387.3	1452.0	1807.9	2438.8	3593.5	5253.8	6734.1	6964.6	6590.5	6449.0	6455.0
67.5°	742.2	766.4	932.3	1280.1	2198.2	4050.6	6080.9	7217.4	7013.2	6768.5	6730.0
70°	509.6	517.7	560.2	655.2	1039.4	2422.7	4586.5	6766.4	7330.7	6997.0	7061.7
72.5°	430.7	426.7	436.8	446.9	544.0	1083.9	2691.6	5207.3	6920.1	6794.8	6770.5
75°	374.1	372.1	376.1	366.0	378.2	477.3	1191.1	3245.7	5065.7	5654.2	5745.2
77.5°	309.4	311.4	313.4	303.3	299.3	315.5	479.3	1425.7	2493.4	2752.3	2968.7
80°	234.6	238.6	254.8	244.7	228.5	230.5	283.1	477.3	715.9	649.1	669.4
82.5°	159.8	161.8	196.2	184.0	171.9	155.7	182.0	246.7	279.1	212.3	186.0
85°	113.2	111.2	127.4	117.3	109.2	78.9	109.2	139.5	167.8	105.2	95.0
87.5°	26.3	26.3	52.6	42.5	40.4	32.4	42.5	54.6	72.8	46.5	42.5
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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CANDELA DISTRIBUTION (continued):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1921.1	1921.1	1921.1	1921.1	1921.1	1921.1	1921.1	1921.1	1921.1	1921.1
2.5°	1957.5	1939.3	1939.3	1935.3	1919.1	1915.1	1900.9	1905.0	1894.8	1884.7
5°	2026.3	2002.0	2002.0	1967.6	1935.3	1931.2	1915.1	1915.1	1898.9	1902.9
7.5°	2121.3	2099.1	2062.7	2032.4	1987.9	1969.7	1939.3	1935.3	1931.2	1923.2
10°	2234.6	2206.3	2169.9	2107.2	2070.8	2036.4	2006.1	1963.6	1953.5	1955.5
12.5°	2388.3	2343.8	2264.9	2210.3	2163.8	2119.3	2074.8	2012.1	1998.0	2004.1
15°	2497.5	2440.9	2362.0	2341.8	2279.1	2224.5	2151.7	2080.9	2056.6	2050.6
17.5°	2586.5	2539.9	2493.4	2463.1	2412.5	2345.8	2244.7	2163.8	2109.2	2103.1
20°	2659.3	2598.6	2588.5	2606.7	2544.0	2499.5	2376.1	2277.1	2204.3	2173.9
22.5°	2703.7	2665.3	2693.6	2709.8	2705.8	2630.9	2503.5	2388.3	2297.3	2269.0
25°	2752.3	2707.8	2808.9	2863.5	2877.7	2754.3	2655.2	2503.5	2414.6	2396.4
27.5°	2776.5	2792.7	2910.0	3025.3	3015.2	2920.1	2786.7	2651.2	2580.4	2548.0
30°	2847.3	2873.6	3051.6	3181.0	3183.0	3090.0	2988.9	2835.2	2756.3	2742.2
32.5°	2974.7	3007.1	3197.2	3334.7	3359.0	3288.2	3187.1	3092.0	3011.1	2978.8
35°	3071.8	3154.7	3369.1	3494.4	3559.2	3516.7	3460.1	3361.0	3276.0	3247.7
37.5°	3211.3	3326.6	3532.9	3702.7	3775.5	3771.5	3729.0	3621.9	3551.1	3526.8
40°	3411.5	3526.8	3714.9	3939.3	4074.8	4068.8	4044.5	3961.6	3856.4	3844.3
42.5°	3623.9	3718.9	3963.6	4220.4	4414.6	4394.3	4329.6	4232.6	4159.8	4143.6
45°	3830.1	3977.8	4204.3	4533.9	4679.5	4730.0	4653.2	4487.4	4404.5	4394.3
47.5°	4089.0	4206.3	4489.4	4784.6	5001.0	5009.1	4877.7	4724.0	4572.3	4604.7
50°	4319.5	4475.2	4762.4	5086.0	5344.8	5251.8	5083.9	4891.8	4782.6	4740.2
52.5°	4566.2	4756.3	5090.0	5419.6	5563.2	5470.2	5197.2	4982.8	4817.0	4798.8
55°	4926.2	5025.3	5462.1	5714.9	5761.4	5565.2	5162.8	4859.5	4645.1	4592.5
57.5°	5292.2	5407.5	5789.7	6008.1	5959.6	5512.7	4940.4	4471.2	4190.1	4115.3
60°	5662.3	5803.9	6125.4	6325.6	6074.8	5150.7	4311.4	3706.8	3379.2	3312.4
62.5°	6074.8	6258.9	6546.0	6616.8	5733.1	4434.8	3421.6	2675.4	2343.8	2232.6
65°	6440.9	6628.9	6982.8	6556.1	5007.1	3308.4	2212.3	1528.8	1284.1	1195.1
67.5°	6742.2	6954.5	7128.4	5801.8	3666.3	1937.3	1152.7	804.9	713.9	681.5
70°	6980.8	7334.7	6521.8	4264.9	2095.1	944.4	622.9	529.8	517.7	509.6
72.5°	6772.5	6726.0	4869.6	2461.1	918.1	519.7	451.0	436.8	434.8	436.8
75°	5538.9	4940.4	2912.0	1069.8	461.1	376.1	374.1	368.0	378.2	378.2
77.5°	2687.6	2349.9	1217.4	459.1	303.3	295.2	305.4	305.4	305.4	305.4
80°	622.9	689.6	434.8	279.1	220.4	220.4	242.7	244.7	234.6	230.5
82.5°	212.3	283.1	238.6	175.9	145.6	163.8	184.0	188.1	155.7	157.7
85°	105.2	165.8	129.4	101.1	74.8	101.1	119.3	125.4	107.2	103.1
87.5°	48.5	72.8	48.5	34.4	26.3	36.4	34.4	28.3	16.2	16.2
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)